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Fleet Specifications

Deepwater Horizon

The DEEPWATER HORIZON is a Reading & Bates Falcon RBS8D design semi-submersible drilling unit capable of operating in harsh environments and water depths up to 8,000 ft (upgradeable to 10,000 ft) using 18½in 15,000 psi BOP and 21in OD marine riser.

Rig Type	5th Generation Deepwater	
Design	Reading & Bates Falcon RBS-8D	
Builder	Hyundai Heavy Industries Shipyard, Ulsan, South Korea	
Year Built	2001	
Classification	ABS	
Flag	Marshall Islands	
Accommodation	130 berths	
Helideck	Rated for S61-N helicopter	
Moonpool	21 ft x 93 ft	
Station Keeping	Dynamically Positioned	
Max Drill Depth	30,000 ft / 9,144 m	
Max Water Depth	8,000 ft / 2,438 m	
Operating Conditions	Significant Wave: 29 ft; @ 10.1 sec; Wind: 60 knots; Current: 3.5 knots	
Storm Conditions	Significant Wave: 41 ft @ 15 sec; Wind: 103 knots; Current: 3.5 knots	

Technical Dimensions

Length	396 ft	121 m
Breadth	256 ft	78 m
Depth	136 ft	41 m
Operating Draft	76 ft	23 m
Ocean Transit Draft	29 ft	9 m
VDL - Operating	8,816 st	8,000 mt

Capacities

Liquid Mud	4,435 bbls	24,900 cu ft	705 cu m
Drill Water	13,076 bbls	73,415 cu ft	2,078 cu m
Potable Water	7,456 bbls	41,862 cu ft	1,185 cu m
Fuel Oil	27,855 bbls	156,392 cu ft	4,426 cu m
Bulk Mud		13,625 cu ft	386 cu m
Bulk Cement		8,175 cu ft	231 cu m
Sack Material	10,000 sacks		

Drilling Equipment

Derrick	Dreco 242 ft x 48 ft x 48 ft, 2000 kips GNC
Drawworks	Hitec active heave compensating drawworks, 6900 hp rated input power continuous, 2in drilling line

Motion Compensator	Hitec ASA Active Heave Compensator, 13.7 ft stroke, 500 st operating, 1000 st locked
Top Drive	Varco TDS-8S, 750 st, 1150 hp with PH-100 pipe handler
Rotary	Varco RST, 60.5in opening, 1000 st
Pipe Handling	2 x Varco PRS-6i Pipe Packers; Varco AR-3200 Iron Roughneck
Mud Pumps	4 x Continental Emsco FC-2200, 7500 psi
Shale Shakers	7 x Brandt LCM-2D CS linear motion / cascading shakers
Desander	2 x Brandt SRS-3 with 6 x 12in cones
Desilter	Brandt LCM-2D/LMC with 40 x 4in cones over one linear motion shaker, 2400 gpm
Mud Cleaner	See Desilter
BOP	2 x Cameron Type TL 18¾in 15K double preventers; 1 x Cameron Type TL 18¾in 15K single preventer; 1 x Cameron DWHC 18¾in 15K wellhead connector
LMRP	2 x Cameron DL 18¾in 10K annular; 1 x Cameron HC 18¾in 10K connector
Diverter	Hydril 60 with 21¼in max bore size, 500 psi WP and 18in flowline and two outlets
Control System	Cameron Multiplex Control System
Riser	Vetco HMF-Classs H 21in OD riser; 90 ft long joints with C&K and booster and hydraulic supply lines
Riser Tensioners	6 x Hydralift Inline, 50f t stroke, 800 kips each
Guideline Tensioners	N/A
Podline Tensioners	N/A
Choke & Kill	Stewart & Stevenson 3-1/16in, 15K, with 2 x adjustable chokes and 2 x hydraulic power chokes
Cementing	Halliburton (third party equipment)

Machinery

Main Power	6 x Wartsila 18V32 rated 9775 hp each, driving 6 x ABB AMG 0900xU10 7000 kW 11,000 volts AC generators
Emergency Power	1 x Caterpillar 3408 DITA driving 1 x Caterpillar SR4 370 kW 480 volts AC generator
Power Distribution	8 x ABB Sami-Megastar Thruster Drives, 5.5 MW and 6 x GE Drilling Drive Lineups 600 V 12 MW
Deck Cranes	2 x Liebherr, 150 ft boom, 80 mt @ 35 ft
Thrusters	8 x Kamewa rated 7375 hp each, fixed propeller, full 360 deg azimuth
Propulsion	See Thrusters

Mooring Equipment

Winches	N/A
Wire/Chain	N/A
Anchors	N/A